160-TP-008-001

# Science-User Scripts for Exercising EP6 Functionality

**Technical paper - Not intended for formal review or Government approval.**

**December 1995**

Prepared Under Contract NAS5-60000

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# Abstract

This document contains EP6 help information and a set of scripts to allow users to walk-through the EP6 functionality. EP6 will be released for evaluation on November 27, 1995; the evaluation will continue through to January 31, 1996. The data analysis of the usability testing, the survey, and the comparison between the two will each be summarized in a chapter of the EP6 Evaluation Results Report, to be published by the end of February, 1996.

***Keywords:*** Evaluation Package 6, EP6, User Scripts

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# 1. Introduction

## 1.1 Purpose

This paper describes background material on Evaluation Package 6 (EP6), EP6 Help information, and the scripts that science users can use to exercise the functionality of Evaluation Package 6 across the following areas:

User Registration
Desktop/Workbench
Earth Science Search Tool (ESST)
Linkage between the ESST and the Advertising Service
Advertising Service
Data Dictionary
User Profile Tool
Trouble Ticketing Tool
EOSView
User Preference Tool
Comment Survey Tool

The information in the scripts is presented in an Action and Response format. Action the user should take is followed by the system response to that action.

## 1.2 Organization

This paper is organized as follows:

Chapter 2: EP6 background material

Chapter 3: EP6 Help information

Chapter 4: Science-user scripts

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# 2. Evaluation Package Background Material

## 2.1 Evaluation Package Overview

The ECS Team has defined a multi-track development approach that includes an incremental development track that will build the full functionality of portions of the ECS in parallel with formal-track development of other portions of ECS. Evaluation Packages are the early delivery mechanism that allows portions of ECS functionality (incremental and prototype) to be placed in the hands of selected users for evaluation and design iteration in advance of formal system releases. Evaluation Packages bring together increments and prototypes for deployment and evaluation

The feedback from one EP influences the objectives and design for the next. Each EP builds upon and expands the capabilities of previous EPs, until the last EP in the series supporting a formal release, when the software is migrated to the formal track for integration, acceptance testing, and formal delivery. Each EP may incorporate selected prototyping efforts from the ECS segments. Prototypes are selected for inclusion in an EP primarily based upon their function and content and their relation to the goals of the EP, and on their need for evaluation by multiple users in the community.

## 2.2 Previous Evaluation Packages

Evaluation Packages 1 through 3 were focused primarily on establishing a distributed testbed environment that interconnected ECS workstations at each DAAC and the ECS development facility in Landover, MD. The testbed environment is built upon an emerging communications technology, Open System Foundation's (OSF) Distributed Communications Environment (DCE). Evaluation Package 3 also introduced mockups of early concepts for the ECS Client.

Evaluation Package 4 explores new concepts for the ECS Client based on the revised architecture presented at the ECS System Design Review in June 1994. In particular, Evaluation Package 4 focuses on the Scientist Workbench; search and traversal of advertisements available from the Advertising Service; continued development of EOSView, an ECS tool for viewing Hierarchical Data Format (HDF) data; and continued development of selected communications infrastructure components.

## 2.3 Evaluation Package 6

Evaluation Package 6 expands on the prototypes included in EP4 and brings in new concepts developed during the Prototype Workshop 1 (PW1) held after EP4 and prior to EP6. The EP6 Client is a combination of Xmotif and HTML-based application; a combination used for two reasons: 1) leverage users familiarity and acceptance of WWW viewers, and 2) demonstrate advanced X-windows capabilities currently out of scope for HTML functionality.

The EP6 Client contains many of the elements from EP4 including an updated Scientist's Workbench, referred in this document as the Desktop/Workbench, an improved and expanded Advertising Service, and the latest version of EOSView. In addition, EP6 includes applications first exhibited at PW1 in May 1995. The Earth Science Search Tool, a comprehensive tool for ordering earth science data has been prototyped in Xmotif for EP6. The Data Dictionary and the User Registration tool have are also included. New tools such as the User Profile Tool and the User Preference Tool are available for evaluation in EP6 along with a Maintenance and Operations prototype of the Trouble Ticketing Tool.

For a further description of EP6 functional content and physical configuration, consult the following:

- EP6 Design Review Presentations (http://edhs1.gsfc.nasa.gov:8001/waisdata/toc/pp7220701toc.html)
- ECS Evaluation Packages Strategic Plan - EP6 Version (222-WP-003-001)

## 2.4 The Future

Prototype Workshop 2 (PW2) is planned for January 23-25, 1996 and will build on some of the early lessons learned from EP6. The focus of PW2 is to investigate alternative ECS Client interfaces. It will showcase new developments in the Xmotif version of the ESST, a Web with Java version of the ESST as well as other Web and prototyped versions. Following PW2 is the EP7 scheduled for delivery in mid-1996. It is planned to contain prototypes of coincidence searching, hypertext authoring, metadata search capability, and subscription services.

# 3. Evaluation Package 6 Help Information

This guide provides an overview of the capabilities of the Evaluation Package 6 (EP6) and describes how to access, display, and use those capabilities.

## 3.1 User Registration

Introduction

The EP6 User Registration Tool allows non-ECS users to request an ECS account. Users with an ECS account have full access to the services which are provided for EP6. In addition, the tool also gives registered users the ability to make any necessary changes to their existing user profile. Guest users can gain access publicly from the World Wide Web, or from the ECS Desktop. Registered users may also gain access from any of the EP6 applications.

Creating an ECS Account

- Request

  To request an ECS account and obtain privileges beyond those of a guest user, you must complete the registration form by entering, as a minimum, your first name, last name and e_mail address. It is recommended that you also complete the mailing address section for it will speed up the registration process. To move around to the different text fields you can either click on that specific field or use the "tab" button on your keyboard. If any of the required fields are not completed, an error message will appear after the "submit" button is pressed notifying you that the required information was not completed, so be sure that all required information is provided.

- Confirmation

  Once you have entered the required information you can either click "submit" to start the registration process or click " reset" to start over. If you click on "submit" the User Registration Confirmation page will pop up. This page reflects all of the information that was entered on the previous page. Once you have confirmed that your information is correct, then click "submit" again. If changes need to be made you can edit them on this screen before submitting.

- Submittal

  Once you have clicked "submit" on the confirmation page, a screen will appear notifying you of the status of your submittal. If your submittal is a success, your information will be passed to the ECS User Account Management Server for processing. Upon successful completion of the registration process, for security purposes, your USERID and PASSWORD will be sent by US. mail.

## 3.2 The Login Window

When the EP6 is started the login window will appear. The Welcome text in the scrolling portion of the login window provides information about the EP6 and its contents.

1. Enter a login name in the Login field. Hit return to send the cursor to the Password field.
2. Enter a password. If the Login name *ecsGuest* was entered in the Login field, a password is not necessary.
3. Selecting the Begin button or hitting return in the Password field will start the user verification procedure.

User names and passwords will be provided by ECS.

## 3.3 The Desktop/Workbench

General Description

The ECS desktop provides a general framework for organizing and presenting various application objects (data and programs) with which a user interfaces. The desktop application will display a directory in two different formats.

- Iconic Format - all files and applications are represented by their icons on the Desktop
- Hierarchical Format - files and applications are organized alphabetically on the desktop. The contents of directories can be opened and displayed in the same Desktop/Workbench window. This method of display is similar to that of the Macintosh operating system.

Desktop Application windows display sets of icons, each of which represents a specific data file, directory or an application. Each icon will have one or more actions related to it. These actions can invoked from the Actions pull down menu. These actions can be performed by:

- Selecting an icon, then selecting the menu option for the particular action.
- Double-Clicking on an icon.
- Dragging an icon onto another icon or another window using mouse button-2. Drag & Drop is supported for Directory icons and EOSView Icons for EP6.

After a user login has been verified the Desktop/Workbench window will appear. If the user logged in as ecsGuest then the User Registration Tool will appear within a WWW browser window.

To register a guest user with ECS:

Enter the requested information into the fields within the User Registration Tool window. Confirm and submit this information to ECS. NOTE: entering this information will not automatically register the user with ECS and allow them access to registered user privileges. Contact Jan Poston Day (jposton@eos.hitc.com) for account information

The Desktop/Workbench pull-down menus contain tools for use in EP6 and actions appropriate to activate those tools, as well as tools for file management.

• File:

Delete Item - Click on an item and click on File/Delete Item to delete an item on Desktop. You will get a warning message to confirm the item to be deleted. Applications cannot be deleted.

Close - Closes the current Desktop Window. Exits the desktop application on closing the last window.

Exit - Exits all windows of Desktop.

• Directory:

Create Directory - Creates a directory in the current directory. Prompts the user to enter a name for the directory.

Home - Displays contents of the directory '$HOME/.ecs' in the current Desktop Window.

Up - Go to parent Directory.

Hierarchical Directory Listing - Open a new window with contents listed in Hierarchical format. This option is grayed out when in Hierarchical format.

Iconic Directory Listing - Open a new Window with contents listed in Iconic format. This option is grayed out when in Iconic format.

Refresh - Refreshes the current Window.

• Tools:

Comment Survey - access to the EP6 Comment Survey through a WWW browser

User Registration - access to the EP6 User Registration Tool through a WWW browser

User Preference Tool - access to the EP6 User Preference Tool

ECS Data Handling System (EDHS) - access to the ECS Data Handling System where users can link to information about ECS and EOSDIS through a WWW browser

User's Recommendations (URDB) - access to the WWW interface of the ECS User Recommendations Database, the ECS "suggestion box"

• Action:

OpenNewWindow - This action is a default action for a Directory. Opens a new window with contents of selected directory.

OpenInPlace - Show the contents of selected directory in the same window.

Open - This action is used for both application and documents (or data files). If the selected icon is an application, it open (or executes ) an application. If the selected icon is a data files, it opens the data file using related application.

Animate - This action is used to animate the selected image file.

• Help:

On EP6 - access to help about EP6 through a WWW browser

On Application - access to help on a particular application within EP6 through a WWW browser

## 3.4 The Earth Science Search Tool (ESST)

### 3.4.1 Introduction

The Earth Science Search Tool (ESST) provides the means for finding, examining, and ordering Earth Science Data Collections and granules. A three step paradigm has been developed to keep the process simple. These steps are: (1) Entering a search and submitting it, (2) reviewing results returned from an ECS database, and (3) selecting specific results for shipment to the client. While this process has been designed for optimum usability, sufficient flexibility exists for the addition of advanced capabilities for users with sophisticated requirements. The process is described in detail in the descriptions of each Earth Science Search Tool screen.

To access the ESST you may either double click on the ESST icon or click once on the icon and then return to the Action pull-down menu and select Open. The ESST window will appear

The First Step, entering a search and submitting it, is performed on the Search Summary Screen. This screen is the first to appear when the Earth Science Search Tool is invoked. It contains the following items: menu bar, icon selection tool button, search type selection button, icon tool bar, Temporal summary area, Spatial summary area, and Discrete Attribute summary area.

A Search is a set of constraints selected for one or more attributes. These constraints are selected by clicking the icon buttons shown in the icon tool bar followed by selection of the specific constraint. The means of selection depends on which type of attribute was selected. For the temporal attribute, a timeline is displayed, from which a time range may be selected. For the spatial attribute, a geographic map is displayed, from which a rectangular region of interest may be selected.

For attributes with only a few discrete choices to select from, a pull-down list appears, from which a selection may be easily made. For attributes with many discrete choices to select from, a dialog window with a convenient find feature will be displayed. In general, the display which appears following selection of an icon button depends upon the type of the corresponding attribute. Note that temporal ranges selected will be shown in the temporal summary area, spatial regions in the spatial summary area, and all attributes summarized in textual format in the discrete attribute summary area.

After a search has been entered, it may be submitted to the ECS database for processing by clicking the "Submit Search" button. The current query attribute values can be saved for future use by selecting "Save" or "Save As" from the "Search" menu. The "Collection Hits" field, at the bottom of the screen, shows the number of collections searched when a query is made. After a search is submitted, a modal dialog gives the user an estimate of the amount of time it will take to complete the search. The user can cancel the search by clicking on the "cancel/quit" button in the dialog.

The Menu Bar for the Search Summary Screen contains the four following items: "Search", "Edit", "Options", and "Help". When the "Search" button is clicked, a pop-up menu appears with the following items:

• Search:

Open - accesses a list of files which may be retrieved.

Save - automatically saves the open file under its existing name.

Save As - opens a window with the option to save the open file under a name specified at this time.

Quit - closes the Earth Science Search Tool application.

When the "Edit" button is clicked, a pop-up menu appears with the following items:

• Edit:

Undo Action - reverses the last change made to the search

Delete Attribute/Value - deletes a specific marked attribute or value

Clear Attributes - clears all of the present attributes selected in the open file

When the "Options" button is clicked, a pop-up menu appears containing the following items:

• Options:

Change Icon Bar - opens a window with the option to configure a new personally selected set of icons for the icon bar.

Set Preferences - opens a window containing all of the personal preferences that can be chosen in regards to the Earth Science Search Tool.

Finally, the "Help" menu contains the following items:

• Help:

Table of Contents - opens a list of all items in the help menu

This Screen. - opens the help page for the open screen of the application Data Dictionary

Introduction - brings up the help page introduction to the Earth Science Search Tool

The "Search Type" selection button, located below the menu bar, provides advanced features in assisting users with their search query. Users can search on the Advertising Service, The Data Dictionary, or Guide information by selecting the item of interest and specifying search criteria by selecting them from the icons in the attribute icon tool bar below.

### 3.4.2 The Attribute Icon Selection Tool

The Attribute Icon selection Tool is a non-modal dialog that allows the user to customize both the icon tool bar in the ESST main window and the metadata displays in the Search Results and Product Request Confirmation windows.

To start the tool click on the Attribute Icon Selection Tool from the options menu or click on the short-cut button. Icons can be selected for display in any of the above windows by either dragging the appropriate icon from the "Available Attributes" region to the "Attributes" region or by selecting the desired icon and clicking the "Add" button. To delete icons from the Attributes region, drag the icon from the Attributes and drop the icon outside the region, or select the icon and click on the "Delete" button.

To save the current set of attributes, click the "Save Set" button. To open saved sets, select the set from the "Attribute Set" pop-up menu that appears when the "Attribute Set" icon is clicked. A set can be deleted from the "Attribute Set" pop-up menu by selecting the set and clicking the "Delete Set" button. By clicking the "Apply" button, the current icon set replaces the set currently used in the window indicated by the "Applied Window" pop-up display.

### 3.4.3 The Search Results

The Second Step, reviewing the results of the search, is performed on the Search Results Screen. When a search has been submitted and is complete, the data server sends back all of the collections and granules which match the search criteria set in the search summary screens. From this point, the user can browse, view coverage and detail information, and select additional data server processing for granules or collections.

In order to perform any of the three above operations, mark the checkbox for that particular granule or collection under the appropriate icon in the Services section of the screen. If a checkbox is not shown, then that service is unavailable for that particular granule or collection. Marking a collection, marks all of its granules as well.

To Browse, View, or Process the marked data, click the respective icon in the Services section. Clicking on the Preview Order button sends the items marked for order to the Product Request Tool for confirmation and order submittal.

## 3.5 The Product Request Tool

The Product Request Tool is an extension of the Earth Science Search Tool that allows users to confirm that selected data collections and/or granules are to be ordered. It also allows the user to utilize many different options before submitting their order. This help page will explain those options and how to submit an order.

The Product Request Tool can be launched from the "Search Results Screen" of the Earth Science Search Tool. The same tools that were available in the Search Results screen may be used again for performing tasks on granules or collections on this screen. The same information that was returned to the Search Results screen will also appear here. At this point, the may, again, browse, view coverage and detail information, and select additional data server processing for granules or collection. Marking the Checkbox for a the specified granules or collections will allow you to perform these tasks. If a checkbox is not shown, then that service is unavailable for that particular granule or collection. Marking a collection, marks all of its granules as well.

The Summary section at the bottom of the page gives the user information on the granules and/or collections that were selected. Categories shown are Total Price, Media Type, Media Format, and Mailing Address. Once the user is satisfied with their selections, the "Submit Order" button may

be clicked. As the order is being processed, the user will receive an E-mail message stating that their order was received along with further instructions.

## 3.6 The Advertising Service

The Advertising Service facilitates collaborative research by allowing scientists to directly advertise and exchange their datasets, software tools and services. The Advertising Service allows for text searching on advertisements. Some of these advertisements will be services which may simply provide contact information with which users can follow-up on and gain access to information of interest. Other services will lead users directly to the data, tool or service advertised.

The full ECS system will be fielded in a series of releases beginning in December of 1996. For ECS documents and project related information please see the ECS Data Handling System. For informal information please see the ECS Science Office Home Page.

With the Advertising Service, users can navigate Earth Science related aspects of the World Wide Web (WWW) in a user friendly way. This feature is similar to a "yellow pages" in a phone book but unlike the phone book, the Advertising Service is dynamic and provides more information than a phone listing. Although it is like current WWW search engines, the Advertising Service returns more than just a list of URLs that match the users' search criteria. The Advertising Service returns a list of URLs and a description of each advertised home page matching the users' search criteria; the user can read the description and related information before linking to the page.

The purpose of the Advertising Service is to provide a means of managing service, provider, and data advertisements within the Earth Science Community. A unique aspect of the Advertising Service is that users are allowed and encouraged to contribute to the Advertising Service by advertising their data, services, or provider information. A user submits an advertisement by providing the title, description, and other pertinent information about the service/provider. Once the advertisement is submitted it is immediately searchable through the Advertising Service.

When a user searches for all links related to, for example, drought in Iowa, USA, the Advertising Service would return the URLs and their descriptions which satisfy the criteria, services available on that data, and providers who can help the user access the data. This is a significant advancement over the currently a available search engines, they do not provide the descriptive information that the Advertising Service does.

## 3.7 The Data Dictionary

The Data Dictionary Tool provides access to databases containing information on Earth Science related data. It consists of a glossary of ECS terms and data, an expanded ECS Acronym list, information on EP6 Data Collections, Instruments, Parameters, Platforms, and Archive Sites. Users will be able to access the Data Dictionary Tool publicly from the World Wide Web, from the ECS Desktop, and from any of the EP6 applications (i.e., the Earth Science Search Tool).

Searching for Information in the Data Dictionary

There are different ways of accessing and retrieving information from the Data Dictionary. The user may choose to search by either scrolling through the Index or by entering a keyword into the "search" text field of the Search Form.

- Simple Search Form

  With this form the user can enter one or more keywords into the text field to be searched. Most frequent used search options are set as defaults for quick search. If you would like to change the default settings, please use Full Search Form.

- Full Search Form

  Using "Full Search Form", users are able to change category and search options. More details on the search options can be found under Searching Hints.

- Index

  The Index contains a listing of searchable categories. Currently there are eight categories populated with data in the ECS Data Dictionary server. They include: Acronyms, Data Collection, Glossary, Instrument, Parameter Group, Parameter Topic, Platform and Site. In addition to the above, a special category, ALL, contains the complete list of items in the ECS Data Dictionary holding.

- Search Form vs Index

  Search Form is more powerful and flexible than the Index. However, it may take longer to get the search results, if the search query is too broad. Or, it may get no hits, if no matches are found in the database. On the contrary, by following the links through Index, performance is better and results are guaranteed.

## 3.8 The User Profile Tool

The User Profile tool facilitates modification of user information for any registered ECS user. The information will be stored in the User Information Database which is controlled by MSS. Centralized, remote storage and access of this information will allow context retrieval (restoration of the users' profile information) on any client to which the user logs in.

If a registered ECS user wants to retrieve their profile for updating purposes, they must first click on the User Profile Icon from the ECS desktop. The User Profile tool will automatically recognize the USERID of the current user and retrieve the respective profile. The user may now make any necessary changes to their profile information by clicking in the desired field and inputting new information. To submit the new profile the user must click the "submit" button at the bottom of the page. The updated information will then be submitted to User Information Database, replacing the users previous profile.

NOTE - Once the user has submitted a new profile, all information on the previous profile is overridden and cannot be retrieved.

NOTE: The same form that is provided for the mailing address will also be provided for the Billing and Shipping address so the user may enter three different addresses for the respective fields.

## 3.9 The Trouble Ticketing Tool

The Trouble Ticketing Service is an application that allows users who encounter problems with any of the EP6 applications to submit a trouble ticket through a provided HTML form. A common environment for classifying, tracking and reporting on problem occurrence and resolution will be provided. Users that submit trouble tickets will be notified on the status of the ticket via e-mail generation.

To submit a Trouble Ticket:

1. Click the "Trouble Ticketing Service" icon from the ECS Desktop.
2. From the Trouble Ticketing home page click the "Submit a Trouble Ticket" link located under the "Menu" subtitle.
3. From the "Submit a Trouble Ticket" screen you will see a table (unless using Mosaic) displaying user information: ID, name, E-mail address and phone number. Below the "User Information" table is the "Problem Information" table.

The Problem Information table contains three sections:

A. Impact - Click on Low, Medium, or High to describe the impact of the problem.

B. Short Description - Give a short, one line, description of the problem.

C. Detailed Problem Description - Give a detailed description of the problem.

4. Once the problem information has been entered, click the submit button to send the Trouble Ticket to the ECS database. Once this is achieved a trouble ticket number will be assigned. As the problem is worked, an e-mail message will be sent regarding its status.

## 3.10 EOSView

EOSView is an HDF file verification tool. The contents of an HDF file are displayed and individual objects can be selected for display. Displays include raster Images, datasets in tables, pseudocolor images of datasets, attributes, and annotations. Simple animations can be performed for a file with multiple raster images.

1. Current workstation availability:

SUN - Solaris 2.3 (SunOS 4.1.3 due soon!), IBM - AIX 3.2.5, HP - HPUX 9.03/9.04, SGI - IRIX 5.2, DEC - OSF/1 V2.0

2. Main Features:

a) Display of HDF file contents, b) Raster Image display, c) Raster Image animation, d) Display of SDS data in table, e) Display of Vdata in table, f) Opening of Vgroup for display, g)

Pseudocolor display of SDS data, h) Palette selection, i) display of text objects, j) Hypertext help

- To Open an HDF file, select the File-Open selection from the menu bar on the EOSView-EOSView Main Window. This will cause a file selection dialog to appear. Once a file has been selected for viewing the contents of that file will appear in an EOSView File Contents Window.
- To select an EOSView window and have the focus change to that window select the Window option from the menu bar. The pull-down window will contain a list of EOSView window titles. Select the title of the desired window.
- To exit EOSView select File-Exit selection from the menu bar on EOSView-EOSView Main Window.

## 3.11 The User Preference Tool

This tool allows users to change or update any configurable items for each of the Desktop tools. For each tool there is a unique set of configurable items. These items are set to default values when the application is first used. Once items have been configured they may be saved for all future interactions.

One of the items the User Preference Tool allows users to set is their World Wide Web (WWW) browser of preference. The default browser setting for EP6 is Mosaic, however it is recommended that Netscape Navigator be used. When selecting Netscape as their default browser, it is recommended that users type “netscape -install” in the appropriate field within the preference tool. This command helps to alleviate some of the Netscape color mapping resource limitations.

## 3.12 The Comment Survey Tool

The Comment/Survey Tool offers a means for EP6 users to give useful feedback to developers in an effort to build a better product. For each EP6 application there will be a series of statements concerning the overall performance of the particular application with which the user may either agree or disagree with. There will also be a section provided for users to enter their own comments concerning the application.

Using the Comment/Survey Tool:

To start the Comment/Survey Tool, click on its icon from the EP6 Homepage or from the ECS Desktop. The front page contains a brief description of what the Comment/Survey Tool is and an index of questionnaires for each of the EP6 applications. Also included in the index is a general questionnaire to evaluate the performance of the entire EP6 package.

For each questionnaire there are a series of statements concerning the particular application in the middle column. To the right of those statements are the numbers 1 to 5, 1 = strongly disagree, 5 = strongly agree. Simply click the appropriate number for each of the corresponding statements. If the user wants to make any comments he/she can do so by typing in the text input area located at the bottom of the questionnaire.

When the questions have been completed, the user may click the submit button at the bottom of the page to send the survey to an ECS database, or, if they are not satisfied with the their answers, they may click the reset button to begin again.

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# 4. Science-User Scripts

The following scripts have been organized such that a user can proceed step by step through each portion of EP6 to exercise EP6 functionality. Each exercise script is organized so that the action the user can take is paired with the system response to that action.

## 4.1 User Registration

***Table 4.1. Script to Exercise the User Registration Tool***

| Step | Action | Response |
|---|---|---|
| 1 | Login to EP6 using ecsGuest as your login name. No password is required. | User Registration form will appear in WWW browser window. |
| 2 | Select "Applicant's Information" | A table containing fields to fill out will appear. |
| 3 | Type in your user registration information | The fields marked with a red √ mark are mandatory fields, they must be filled in for ECS to accept the user's registration. |
| 4 | Click the "Submit" button to send your registration information to ECS | The ECS User Registration Confirmation screen will appear. |
| 5 | Confirm that the information you typed into the fields is correct and click the "Submit" button | The status of your user registration is displayed informing you that your registration information has been submitted to ECS and that your user account information and password will be sent to you via US Mail. |
| | This concludes the script to exercise the User Registration Tool. | |

## 4.2 Desktop/Workbench

***Table 4.2. Script to Exercise the Desktop/Workbench (1 of 2)***

| Step | Action | Response |
|---|---|---|
| 1 | Examine the contents of the pull-down menus. | The pull-down menus open as the cursor moves across them. |
| 2 | Examine the EP6 Help by selecting the Help pull-down menu | The Help information is displayed in a WWW browser window. |
| 3. | After examining the Help information return to the Desktop/Workbench “Directory” pull-down menu and select “Create directory.” | The File menu opens, “Create directory” is highlighted. A dialog box appears. |
| 4 | In the dialog box field type “Advert_links” and press “OK.” | The dialog box disappears and the folder entitled, “Advert_links” appears on the Desktop/Workbench. |

***Table 4.2. Script to Exercise the Desktop/Workbench (2 of 2)***

| Step | Action | Response |
|---|---|---|
| 5 | Double-click on the new folder, or highlight the icon, go to the “Action” pull-down menu and select “OpenInPlace.” | The Desktop/Workbench window refreshes and displays the contents of the “Advert_links” folder within the refreshed window. One icon, “..(go up)” is shown. |
| 6 | Return to the previous level of the Desktop/Workbench by double-clicking on the “..(go up)” icon. | The window refreshes and displays the previous level of the Desktop/Workbench with all of the EP6 applications as icons. |
| | This concludes the script to exercise the Desktop/Workbench | |

## 4.3 Earth Science Search Tool (ESST)

***Table 4.3. Script to Exercise the Earth Science Search Tool (ESST) (1 of 3)***

| Step | Action | Response |
|---|---|---|
| 1 | Double-click on the Earth Science Search Tool (ESST) icon on the Desktop | The ESST window appears |
| 2 | Formulate a query for data by selecting search criteria. Begin by selecting a Sensor, click on the Sensor icon. | A pull-down menu listing all the EP6 supported sensors appears. |
| 3 | Select AVHRR by clicking on the text | The text "AVHRR" appears in the area labeled "Discrete Attribute Summary" beneath the heading "sensorShortName" and the pull-down menu disappears. |
| 4 | Select a search parameter by clicking on the Parameter icon. | A pull-down menu listing all of the valid EP6 supported parameters appears. The parameters that are not valid, because AVHRR was selected as the sensor, are greyed-out. |
| 5 | Select NDVI by clicking on the text | The text "NDVI" appears in the area labeled "Discrete Attribute Summary" beneath the heading "parameter Topic" and the pull-down menu disappears. |
| 6 | Define the temporal bounds of the search by clicking on the Temporal icon | The Timeline Tool appears on the screen. The datasets supported by EP6 are shown within the Timeline. |
| 7 | To view the temporal coverage of data within EP6 move the scroll bar at the bottom of the Timeline Tool | The Timeline Tool display scrolls forwards and backwards from 1986 to 1992. |
| 8 | Select the time range 6/1/1992 to 6/30/1992 by highlighting that portion of the timeline with your cursor. Note: it may be difficult to select the exact dates, try to get as close to them as possible. | A yellow highlight box appears over the dataset entitled, "1KM-NDVI" |

***Table 4.3. Script to Exercise the Earth Science Search Tool (ESST) (2 of 3)***

| Step | Action | Response |
|---|---|---|
| 9 | Close the window by clicking on the Update/Close button | The Timeline Tool window will close and the start and end dates selected will appear in the "Discrete Attribute Summary" beneath the heading "Temporal." |
| 10 | Submit the Search by clicking on the “Submit Search” button at the bottom of the window. | The results of the search are returned and displayed in a "Search Results" window. |
| 11 | Open the data collection to reveal the granules returned by the search. To open the data collection click on the file folder icon to the left of the data collection name, “1KM-NDVI.” | The granules are displayed. |
| 12 | Select a browse image to view by clicking in a white box in the "Browse" column. To access the browse image then click on the "Browse" icon at the top of the column. | A User Profile dialog box is displayed. |
| 13 | Fill in the requested information in the dialog box :<br>• e-mail address: enter the address using EP6 login name@ the machine containing the client.<br>ex. jposton@epserver.gsfc.com<br>• Destination directory: the same as the directory/path information located on the Desktop/Workbench beneath the pull-down menus.<br>ex: /users/jposton/.ecs/<br>• Your Host Password: the password you use to login to EP6<br>• Your Host Name: the server on which the EP6 client is running.<br>ex: epserver.gsfc.nasa.gov<br><br>click "OK" when you have finished entering the information. | The System will retrieve the browse image from the database and automatically start up EOSView and load the browse image into EOSView for visualization.<br>To view the image - continue with the exercise of EOSView step 2.<br>To continue exercising the ESST see the next step. |
| 14 | Select the boxes in the "Select to Order" column by clicking on the data granules of interest. | Check marks will appear in the boxes in the far left-hand column. |
| 15 | Click the "Preview Order" button at the bottom of the window | The "Product Request Tool" window appears containing a summary of the order. |
| 16 | Confirm that the information is correct. Change the media type to “ftppull.” Submit the order by clicking the "Submit Order" button. | The dialog box disappears when the data has been stored in a directory for pickup. An email notification will be sent to the user with the name and location of the data that was ordered. |

***Table 4.3. Script to Exercise the Earth Science Search Tool (ESST) (3 of 3)***

| Step | Action | Response |
|---|---|---|
| | NOTE: if “ftppush” was selected in the previous step, the user profile information filled out, and the order submitted, the user would receive an email notifying them that the information was stored in the directory they requested in their account. To ensure that the data would be sent to your Desktop/Workbench type your home directory path ending with .ecs | |
| 17 | When the order has been completed you may close the ESST and Product Request Tool windows and return to step 2 to do another search. | |
| | This concludes the script to exercise the Earth Science Search Tool. | |

## 4.4 Linkage Between the ESST and the Advertising Service

***Table 4.4. Script to Exercise the Linkage Between the ESST and the Advertising Service (1 of 2)***

| Step | Action | Response |
|---|---|---|
| 1 | Access the ESST by double-clicking on the ESST icon in the Desktop/Workbench | The ESST window appears |
| 2 | Select "Advertising" from the "Search Type" pull-down window located beneath the ESST pull-down menus at the upper left of the window | The word "Advertising" appears in the pull-down menu selection |
| 3 | Formulate a query for data in the Advertising Service by selecting search criteria. Begin by selecting a Sensor, click on the Sensor icon. | A pull-down menu listing all the EP6 supported sensors appears. |
| 4 | Select AVHRR by clicking on the text | The text "AVHRR" appears in the area labeled "Discreet Attribute Summary" beneath the heading "sensorShortName" and the pull-down menu disappears. |
| 5 | Submit the search to the Advertising Service by clicking the "Submit Search" button at the bottom of the ESST window. | The Advertising Service will appear in a WWW browser window. The results of your search will appear in the “Search Results” page. |
| 6 | Select the highlighted text and review the advertisement | A detailed description of the Service is displayed along with the service URL, the date the service was submitted, the organization/mission category, a contact point for users and an email address. |

***Table 4.4. Script to Exercise the Linkage Between the ESST and the Advertising Service(2 of 2)***

| Step | Action | Response |
|---|---|---|
| 7 | To continue exercising the Advertising Service from this point, refer to step 3 of the Advertising Service exercise script below. | |
| | This concludes the script to exercise the linkage between the ESST and the Advertising Service. | |

## 4.5 The Advertising Service

***Table 4.5. Script to Exercise the Advertising Service (1 of 4)***

| Step | Action | Response |
|---|---|---|
| 1 | Access the Advertising Service by double-clicking on the Advertising Service icon on the Desktop/Workbench | The Advertising Service home page appears in a WWW browser window |
| 2 | To learn more about the Advertising Service select the highlighted text "What is" on the home page. | Detailed information about the mission and implementation of the Advertising Service appears. Links to other ECS-related home pages are available. |
| 3 | Return to the home page by selecting the browser "back" button | The Advertising Service home page appears in the WWW browser window |
| 4 | Click on the highlighted text, "Index" | The Advertising Service Index page appears. |
| 5 | Each typewriter key on the displayed page indicates the first letter of the alphabetical index. Select the letter "A" | A listing of all Advertising Service holdings beginning with the letter "A" is displayed in the window. The entries are listed by their categorization: Product, Service, or Provider. |
| 6 | Scroll down the list and select the Service "Alaska Synthetic Aperture Radar Facility Calibration" | A detailed description of the Service is displayed along with the service URL, the date the service was submitted, the organization/mission category, a contact point for users and an email address. |
| 7 | Click on the highlighted URL | The Advertising Service links to the service's URL and the "ASF Calibration '95" page is displayed. |
| 8 | Return to the Advertising Service home page by clicking back from the "ASF Calibration '95" page and clicking on the Advertising Service icon at the top of the window | The Advertising Service home page appears in the WWW browser window |
| 9 | Select the "General Search" link | The "Search Advertising Service" form is displayed in the window. |

***Table 4.5. Script to Exercise the Advertising Service (2 of 4)***

| Step | Action | Response |
|---|---|---|
| 10 | After reading the introductory text, type the words, "sea ice" and submit the search. | A listing of all Advertising Service holdings with “sea AND ice" is displayed in the window. The entries are listed by their categorization: Product, Service, or Provider. |
| 11 | Return to the "General Search" form using the browser “back” button and change the Search Options so that search uses a Boolean “OR” between words | A listing of all Advertising Service holdings with “sea OR ice" is displayed in the window. The entries are listed by their categorization: Product, Service, or Provider. |
| 12 | Return to the “General Search” form and change the Search Options so that the search also looks in the “description” of the Advertisement and increase the Maximum Results to “50” | A listing of all Advertising Service holdings with “sea OR ice" in the title or description is displayed in the window. The entries are listed by their categorization: Product, Service, or Provider. |
| 13 | Return to the Advertising Service Home Page and select “Attribute Search” listed under “Search Advertisements.” This form allows you to search for data products that correspond to the attributes you enter into the form. Enter the sensor name “AVHRR” and the coordinates:<br>upper left longitude: -80<br>upper left latitude: 40<br>lower right longitude: -70<br>lower right latitude: 30<br>Submit the selected Attribute search by clicking the “Submit” button. | A listing of all Advertising Service holdings which fit the attributes you entered are displayed. |
| 14 | Return to the Attribute Search form using the browser “back” button to refine your search. Add a search attribute Parameter, “Sea Ice.” Submit the refined search by clicking on the “Submit” button. | The listed displayed contains a short list of data products advertised within the Service. |
| 15 | Select one of the Products from the list | A description of the Product is available along with the associated contact information. Product Processing level, the associated Parameters, and the temporal and spatial coverage for the data product are provided. This information was downloaded from the Global Change Master Directory (GCMD), it is listed as the Organization which provided the advertisement. Because these have been downloaded from the GCMD they do not contain URLs. |
| 16 | Return to the Attribute Search form to submit a new search. Clear all of the fields of text using the “Reset” button. Under Search Options, select “EOS” from the “Organization/Mission” pull-down menu. Submit your search. | The Attribute Search returns 3 data Products listed on the Results page. |

***Table 4.5. Script to Exercise the Advertising Service (3 of 4)***

| Step | Action | Response |
|---|---|---|
| 17 | Select the “ISCCP_C2” Product Advertisement. Scroll down to the bottom of the page. | The ISCCP_C2 Product Advertisement is displayed. Three buttons, “Install,” “Invoke,” and “Order” are shown. |
| 18 | Click on the “Invoke” button | The Advertising Service links to the Earth Science Search Tool and the ESST window opens. |
| 19 | At this point you may search for the ISCCP_C2 Data Collection using the icons in the Attribute Tool Bar. | To continue exercising the ESST please see step 2 of the Script to exercise the ESST found above. Search for the ISCCP_C2 data collection by selecting the parameter “cloud type.”<br>To continue exercising the Advertising Service see the next step in this script. |
| 20 | Return to the ISCCP_C2 Product Advertisement displayed in the WWW browser window. Click on the “Install” button at the bottom of the page. | A dialog box appears instructing you to type in the location where you would like the Product Advertisement link stored in your /home directory, and you may also re-name the Product Advertisement link. |
| 21 | Check to see that your directory/path information is correctly listed in the “Filename” field. The name of the file follows after the “/.ecs/” portion of the text. You may rename the file by editing this portion of the field. | The link appears as an icon on the Desktop/Workbench. |
| 22 | Highlight the Advertisement and drag it on to the “Advert_links” folder you created on the Desktop/Workbench. | The icon will highlight as it is dragged and dropped into the “Advert_links” folder. To exercise the Desktop/Workbench continue with step 5 of the exercise script for the Desktop/Workbench listed above.<br>To continue in the Advertising Service see the next step of this script. |
| 23 | Return to the ISCCP_C2 Product Advertisement displayed in the WWW browser window. Click on the “Order” button at the bottom of the page. | The Advertising Service links to the Earth Science Search Tool and the ESST window opens. |
| 24 | At this point you may search for the ISCCP_C2 Data Collection using the icons in the Attribute Tool Bar. | To continue exercising the ESST please see step 2 of the Script to exercise the ESST found above.<br>To continue exercising the Advertising Service see the next step in this script. |
| 25 | Return to the Advertising Service Home Page and select, “Advertisement Submission Form” | The “Submit Advertisement” form appears in the browser window. |
| 26 | In the fields provided, fill in the information to submit an advertisement for your DAAC or earth science-related page. When the form is complete click on the “Submit” button at the bottom of the page. | The “Submission Result” window is displayed.<br>If there are any error messages please return to the previous page and correct the information and repeat step 17.<br>If there are no error messages the “Submission Result” window is displayed. |

***Table 4.5. Script to Exercise the Advertising Service (4 of 4***

| Step | Action | Response |
|---|---|---|
| 27 | Return to the Advertising Service Home Page and select, “General Search.” | The Advertising Home Page is displayed |
| 28 | Enter a search for the advertisement you just submitted. | The “Search Results” page is displayed with the results of your search. |
| 29 | Scroll down the list of results and select your own advertisement. It should have a “NEW” icon displayed next to the title. Select your advertisement and click on it. | The Advertisement you just submitted is displayed. |
| | This concludes the exercise script for the Advertising Service | |

## 4.6 The Data Dictionary

***Table 4.6 Script to Exercise the Data Dictionary (1 of 3)***

| Step | Action | Response |
|---|---|---|
| 1 | Double-click on the Data Dictionary icon in the Desktop/Workbench | The Data Dictionary appears in a WWW browser window |
| 2 | In the Data Dictionary Search Form type "AVHRR" and press the "submit" button | The result appears in the WWW browser window. There are three "hits." AVHRR reference category Acronym, AVHRR reference category instrument, and North America, 1 km AVHRR 10-day composite NDVI reference category Data Collection |
| 3 | Click on the highlighted text "Acronym" | The result "Advanced Very High Resolution Radiometer" appears in the window beneath the title "Acronym Item Information" |
| 4 | return to the previous screen by clicking the "back" button and click on the highlighted text "Instrument" | The Instrument Item Information appears. A description of the AVHRR instrument, cross references to Data Collections within EP6 and related Platform information is available from this page. |
| 5 | Scroll down the page and click on the related Platform information, "NOAA-10" | The Platform Item Information appears listing the platform acronym, related Data Collections, and Instruments. |
| 6 | Return to the Data Dictionary Home Page by clicking on the Data Dictionary icon at the bottom of the page, and select "Full Search Form" which is highlighted on the page. | The Full Search Form appears in the WWW browser window. |
| 7 | Type in "Normalized Difference" in the search field | The results of the search are returned and displayed in the WWW browser window. There is 1 "hit" in the results set. |

***Table 4.6 Script to Exercise the Data Dictionary (2 of 3)***

| Step | Action | Response |
|---|---|---|
| 8 | Return to the Full Search Form by clicking the browser "back" button. Change the Search Options so that the search finds matches in both entry "Name" and "Description." Submit search. | The Full Search Form is displayed and the search options are changed. There are 2 search result "hits" in the results set |
| 9 | Return to the Data Dictionary home page by clicking on the Data Dictionary icon at the bottom of the page | The Data Dictionary Home Page appears in the WWW browser window |
| 10 | Scroll down to the Data Dictionary Index and select "All" | An alphabetical listing of each acronym, data collection, glossary, instrument, parameter group, parameter topic, platform, and site pertinent to EP6 are listed. |
| 11 | Return to the Index by clicking the browser “back” button, and select the topic "Acronym" | The alphabetical listing of the acronyms in EP6 are returned in the WWW browser window. Each entry is highlighted and linked to the acronym definition. |
| 12 | Return to the Index by clicking the browser “back” button, and select the topic "Data Collection" | A listing of the 3 Data Collections stored in EP6 appears. Each entry is highlighted and linked to more detailed information about that particular Collection. |
| 13 | Return to the Index by clicking the browser “back” button, select the topic "Glossary" from the Index | The Data Dictionary Index Listing for the Glossary appears in the window. The Glossary entries are listed alphabetically. Each entry is highlighted and linked to the entry definitions. |
| 14 | Return to the Index by clicking the browser “back” button, and select the topic "Instrument" | A list of the 5 instruments appears in a WWW browser window. The Instrument entries are listed in alphabetical order. Each is highlighted and linked to more information about that instrument. |
| 15 | Return to the Index by clicking the browser “back” button, and select the topic "Parameter Group." | A list of EP6 data parameters are shown in alphabetical order according to their parameter group. Each entry is highlighted and linked to more information about the parameter, related Data Collections and Parameter Topics. |
| 16 | Scroll down the list and select "Land Processes." | The description of Land Processes appears in the browser window and is cross referenced with a Data Collection and the Parameter Topic "NDVI." |
| 17 | Return to the Data Dictionary Index by clicking on the Data Dictionary Home Page icon at the bottom of the window. Select "Parameter Topic" from the list. | A list of parameters appears in the browser window. Each parameter is highlighted and linked to more information. |
| 18 | Scroll down the list and select "Cloud Albedo" | A definition of Cloud Albedo including measurement units, horizontal and vertical resolution, and range is returned in the browser window along with information on related Data Collections and Parameter Groups |

***Table 4.6 Script to Exercise the Data Dictionary (3 of 3)***

| Step | Action | Response |
|---|---|---|
| 19 | Return to the Data Dictionary Index by clicking on the Data Dictionary Home Page icon at the bottom of the window. Select "Platform" from the list. | The Platform Item Information appears in the browser window listing the platform acronym, related Data Collections, and Instruments. |
| 20 | Return to the Data Dictionary Index and select "Site" from the list. | A list of all the DAAC sites appears in the browser window. Each site is highlighted and linked to more information about that site. |
| | This concludes the script to exercise the Data Dictionary | |

## 4.7 The User Profile Tool

This tool is not available to those using EP6 with a Guest account.

***Table 4.7. Script to Exercise the User Profile Tool***

| Step | Action | Response |
|---|---|---|
| 1 | Access the User Profile Tool by double-clicking on the User Profile Tool icon found on the Desktop/Workbench. | A WWW browser appears containing the ECS User Profile |
| 2 | Review the contents of each of the fields by scrolling through the window. Scroll to your Mailing Address and enter the correct information in the fields. When completed scroll to the bottom of the window and click on the "submit" button | The information will appear on the WWW page in the appropriate fields as you type. Once the information is submitted, the system will return the information to you within a User Profile Confirmation notice and ask you to confirm the information. |
| 3 | Confirm the information and click on the "submit" button. | The system will provide a confirmation notice that the information you provided has been submitted to the Profile Management Server for update |
| | This concludes the script to exercise the User Profile Tool | |

## 4.8 The Trouble Ticketing Tool

This tool is not available to those using EP6 with a Guest account.

***Table 4.8. Script to Exercise the Trouble Ticketing Tool (1 of 2)***

| Step | Action | Response |
|---|---|---|
| 1 | Access the ECS Trouble Ticketing Service from the Desktop/Workbench by double-clicking on the icon. | A WWW browser window appears with the Trouble Ticket Service information displayed. |
| 2 | After reading the introductory information, select the highlighted text "Submit a Trouble Ticket." | The WWW browser window displays a brief set of instructions below which is your user information. |

***Table 4.8. Script to Exercise the Trouble Ticketing Tool (2 of 2)***

| Step | Action | Response |
|---|---|---|
| 3 | Scroll down to the portion of the screen entitled, "Problem Information." Determine the level of impact of your trouble ticket by selecting one of the buttons (low, medium, high). Enter a short description of the problem, and a more detailed description below it. Submit the ticket to ECS by clicking on the "submit" button. | Notification that your trouble ticket was received by the system will appear in the WWW browser window. Your entry will be assigned a trouble ticket tracking number and you will receive an email to confirm the status of your trouble ticket. |
| 4 | To view the trouble ticket you just submitted, click on the highlighted text, "this Trouble Ticket" | The trouble ticket will appear in the browser window. |
| 5 | Return to the Trouble Ticket Service home page by clicking on the icon at the bottom of the page | The Trouble Ticket Service home page will appear |
| 6 | To view a listing of all of the trouble tickets you have submitted select, "List my Trouble Tickets." | A table containing a list of each trouble ticket you have submitted, their tracking number, short description, and current status appears. |
| | This concludes the script to exercise the Trouble Ticketing Tool | |

## 4.9 EOSView

***Table 4.9. Script to Exercise EOSView (1 of 2)***

| Step | Action | Response |
|---|---|---|
| 1 | Access EOSView by double-clicking on the EOSView icon found on the Desktop/Workbench | The EOSView Main Window appears on the screen |
| 2 | From the "File" pull-down menu select "Open." Select a file to view, file name must end in ".hdf" Select "OK." | An EOSView window entitled, "EOSView - *filename*.hdf" opens containing information about the file you selected. |
| 3 | From the "File" pull-down menu on this new window select "File Info." Once you have read the file information click "OK" to close the window. | A dialog box opens containing information about the file you have selected. After you click "OK" the window disappears. |
| 4 | From the "EOSView - *filename*.hdf" window double-click "File Identifier." | The name of the file appears in the new window. |
| 5 | Select "Close" from the "File" pull-down menu of this "EOSView - Text Display" window. | The window closes. |
| 6 | Return to the "EOSView - *filename*.hdf" window and double-click on "File Description." | A new "EOSView - Text Display" window opens containing a brief description about the file you have opened. |

***Table 4.9. Script to Exercise EOSView (2 of 2)***

| Step | Action | Response |
|---|---|---|
| 7 | Select "Close" from the "File" pull-down menu of this "EOSView - Text Display" window. | The window closes. |
| 8 | Return to the "EOSView - *filename*.hdf" window and double-click on "Palette:." | An informational message appears noting that the feature is not implemented |
| 9 | Click on the "OK" to confirm and close the message | The window closes |
| 10 | To view the imagery, click on one of the listed "Image (*nnn* x *nnn*) ref = *n* (palette)" items. | A new window appears entitled, "EOSView Image Display window - Image (*nnn* x *nnn*) ref = *n* (palette)." The image is displayed within the window. "Zoom in" and "zoom out" buttons are available. A pan window is labeled beneath the zoom buttons. |
| 11 | Expand the "EOSView Image Display window." Zoom in on the image by using the "Zoom In" button. Place the cursor in the Pan Window and pan around the image. | The image is displayed at higher resolution and can then be moved around by control of the panning window to show other portions of the zoomed-in image. |
| 12 | From the "Palette" pull-down menu, choose the "Select" option and from there choose one of the alternate color palettes. | The image display refreshes using the new color palette. |
| 13 | Return to the "File" pull-down menu and choose the "Quit" option | The window closes. |
| 14 | From the "EOSView - *filename*.hdf" window select "Animate Images" from the "Options" pull-down menu. | The images within the file are loaded and displayed in a window entitled, "EOSView - Image Animation Window - *filename.hdf*." |
| 15 | Enlarge the new window. Go to the "Options" pull-down menu and select "Mode." From there select "Continuous Run." Move the cursor to the row of buttons at the bottom of the window and select the ">>" (Play) button. | The images begin display in an animation loop. |
| 16 | Move the cursor to the speed toggle at the bottom left corner. Move the speed toggle to maximum speed (+). | The animation loop increases in speed. |
| 17 | Press the "\|\|" (Stop) button. | The animation loop stops. |
| 18 | Go to the EOSView - Main Window and select "Exit" from the "File" pull-down menu. | All open EOSView windows will close and EOSView will quit. |
| | This concludes the script to exercise EOSView | |

## 4.10 The User Preference Tool

***Table 4.10. Script to Exercise the User Preference Tool (1 of 2)***

| Step | Action | Response |
|---|---|---|
| 1 | Access the User Preference Tool from the Desktop/Workbench by double-clicking on icon. | The User Preference Tool will appear in a window. |
| 2 | To view/edit the preferences for a portion of the EP6 select one of the buttons on the left-hand side of the Tool window. Click on the button labeled "Earth Science Search Tool" | The information on the right-hand side of the window shows the customizable elements of the ESST. |
| 3 | To edit the preferences highlight the desired field and type in the new preference. Select the field labeled, "Window Startup Position X:" and change the default value "222" to "400." | The new number "400" will appear in the field. |
| 4 | Save the preferences by selecting the "Save" option from the "Preferences" pull-down menu at the top of the window. | The pull-down menu option "Save" appears and is selected. |
| 5 | To view/edit the preferences for the Desktop select the button labeled "Desktop" on the left-hand side of the window. | The information on the right-hand side of the window shows the customizable elements of the Desktop. |
| 6 | To edit the preference for WWW browser highlight the field labeled, "WWW browser path name" and type, "Mosaic" | The word "Mosaic" should appear in the field. |
| 7 | Change the Experience level by selecting the switch and select the option "Expert." | The toggle switch changes from "Intermediate" to the new preference "Expert." NOTE: The Experience Level may be changed but it does not change any portion of the EP6, it does not affect the experience level of interface displayed. |
| 8 | Save the preferences by selecting the "Save" option from the "Preferences" pull-down menu at the top of the window. | The pull-down menu option "Save" appears and is selected. |
| 9 | To edit the preferences within the Product Request Tool select the button labeled "Product Request Tool" found on the left-hand side of the window | The information on the right-hand side of the window shows the customizable elements of the Product Request Tool. |
| 10 | Select the field "email address" and enter in your correct email address. | The text "none" is replaced by the correct information. |
| 11 | Change the default media type by selecting the toggle switch labeled, "Default Media Type." Select "Network Pull" | The text "ftp" is replaced by "Network Pull." |

***Table 4.10. Script to Exercise the User Preference Tool (2 of 2)***

| Step | Action | Response |
|---|---|---|
| 12 | Save the preferences by selecting the "Save" option from the "Preferences" pull-down menu at the top of the window. | The pull-down menu option "Save" appears and is selected. |
| 13 | Quit the User Preference Tool by selecting the "Quit" option from the "Preferences" pull-down menu at the top of the window | A Quit Confirmation dialog box will appear. |
| 14 | Confirm the quit action by selecting, "OK." | The dialog box will close |
| | This concludes the script to exercise the User Preference Tool | |

## 4.11 The Comment Survey Tool

***Table 4.11. Script to Exercise the Comment Survey Tool (1 of 2)***

| Step | Action | Response |
|---|---|---|
| 1 | Access the Comment Survey Tool from the Desktop/Workbench by double-clicking on the CST icon | The Comment/Survey appears in the WWW browser window. |
| 2 | After reading the introductory text select the "General" icon from the Questionnaire Index. | The questions relating to the EP6 in general appear. |
| 3 | Answer the survey questions by selecting the number in the table that corresponds to your agreement or disagreement with each question | Numbers are highlighted as they are selected. |
| 4 | Scroll down the page to the field labeled, "Comment, Suggestion, Complaint" and enter any comments you have about the EP6 in General. | The text appears in the field |
| 5 | When the survey form is completed click the "submit" button to send the information to ECS. | A Thank You message appears in the WWW browser window. |
| 6 | To answer survey questions about other portions of the EP6 return to the Comment Survey Tool home page by selecting the survey icon at the bottom of the page | The Comment/Survey appears in the WWW browser window |
| 7 | Select another portion of the EP6 survey by clicking on the associated icon | The questions relating to that portion of the EP6 appear in the WWW browser window |
| 8 | Answer the survey questions by selecting the number in the table that corresponds to your agreement or disagreement with each question | Numbers are highlighted as they are selected. |

***Table 4.11. Script to Exercise the Comment Survey Tool (2 of 2)***

| Step | Action | Response |
|---|---|---|
| 9 | Scroll down the page to the field labeled, "Comment, Suggestion, Complaint" and enter any comments you have about the EP6 in General. | The text appears in the field |
| 10 | When the survey form is completed click the "submit" button to send the information to ECS. | A Thank You message appears in the WWW browser window. |
| 11 | Repeat steps 7 through 10 until you have completed the EP6 survey. | |
| | This concludes the script to exercise the Comment Survey Tool | |

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# 5. References

Dopplick, T. (1995) Science User Scripts for Exercising Evaluation Package 4, Technical Paper, 160-TP-001-001.

ECS Evaluation Packages Strategic Plan - EP6 Version (1995), White Paper, 222-WP-003-001